Key Site

GULF OF MEXICO

Surveillance

Weather

Air Traffic Control

ADS-B

AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST

Communication

Gulf of Mexico

Infrastructure
- Approximately 22 ADS-B ground stations located on oil platforms and along the shore
- Approximately 35 Weather sensor stations
- 12 existing communication stations
- 7 new communication stations

Service Volumes – (Communications and Surveillance)
- Low Altitude En Route Service Volume
  -1,500 ft. - 3,000 ft. above mean sea level (MSL) over oil/gas platforms
- High Altitude En Route Service Volume
  – *Floor: 28,000 ft. MSL, Ceiling: 60,000 ft. MSL*

Services
- Air traffic control separation services
  – ADS-B / ADS-R for Low Altitude up to 24,000 ft.
  – ADS-B 1090-ES only for High Altitude above 24,000 ft.
- VHF Voice Communications (Air to Ground)
- Automated Weather Observation Services
- Flight Information Broadcast Services (FIS-B) Product Set 2 Low Altitude
- (future) Traffic Information Broadcast Services (TIS-B) along shore areas as part of Nationwide roll-out after In Service Decision

Interface Protocols
- Common Digitizer-2 as a virtual radar for integration with legacy automation
- ASTERIX Category 33 for position data and Category 23 service status for integration with ERAM releases

Service Delivery Points (SDP)
- Primary SDP: HOST / ERAM automation system at Houston Center
- Other SDPs
  – Surveillance and Broadcast Services monitor receives service status reports and equipment status reports, as well as ADS-B and FIS-B data
  – FAA monitoring takes place at the William J. Hughes Technical Center and the Aeronautical Center
  – Service certification is at the service delivery point for each automation platform

Applications
- Air traffic control surveillance
- Weather reporting for instrument flight rules flights
- Voice communications (controller / pilot)
- Enhanced visual acquisition
- Weather and NAS situational awareness

Benefits
- High altitude
  – Increased capacity
  – Optimal routing
- Low altitude
  – Increased capacity
  – Reduction in weather related accidents

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